

It is estimated that no additional fee is necessary for filing this response. In the event an additional fee is required, please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150.

IN THE SPECIFICATION

Please amend the specification, as follows:

Please amend the title of the application to read as follows: ANTI-HUMAN T-CELL COSTIMULATING POLYPEPTIDE MONOCLONAL ANTIBODIES.

On page 1, please replace the text of the section entitled "Cross Reference To Related Applications," said section having been added by amendment on August 14, 2000, to read as follows:

B1 This application claims priority to PCT Application, PCT/DE98/02896, filed September 23, 1998, and German Applications, DE 19821060.4, filed May 11, 1998, and DE 19741929.1, filed September 23, 1997, each of which is incorporated herein by reference in its entirety.

IN THE CLAIMS

Please amend the claims, as follows:

Cancel claims 1-28 and 53-70, without prejudice.

Add new claims 71-88, as follows:

Sub D17 71. (New) A monoclonal antibody that recognizes a human 8F4 polypeptide or a fragment thereof, wherein said 8F4 polypeptide:

- a) is an inducible T cell costimulatory molecule;
- b) occurs on two-signal-activated human T lymphocytes;
- c) exhibits a molecular weight of about 55 to 60 kilodaltons as determined by non-reducing sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE); and
- d) is a dimer of two peptide chains exhibiting molecular weights of about 27 kilodaltons and 29 kilodaltons, as measured by reducing SDS-PAGE.

B2
cont

72. (New) The monoclonal antibody of Claim 71, wherein said monoclonal antibody recognizes the human 8F4 polypeptide of about 55 kilodaltons to 60 kilodaltons, as determined by non-reducing SDS-PAGE.

73. (New) The monoclonal antibody of Claim 71, wherein said monoclonal antibody recognizes the peptide chain of about 27 kilodaltons, as determined by reducing SDS-PAGE.

74. (New) The monoclonal antibody of Claim 71, wherein said monoclonal antibody recognizes the peptide chain of about 29 kilodaltons, as determined by reducing SDS-PAGE.

75. (New) The monoclonal antibody of Claim 71, wherein said monoclonal antibody recognizes a human 8F4 polypeptide present on activated human CD4⁺ T lymphocytes and activated human CD8⁺ T lymphocytes.

Sub D27

76. (New) The monoclonal antibody of Claim 71, wherein the monoclonal antibody inhibits a biological activity of the human 8F4 polypeptide.

77. (New) The monoclonal antibody of Claim 71, wherein the monoclonal antibody activates a biological activity of the human 8F4 polypeptide.

78. (New) A hybridoma that produces a monoclonal antibody that recognizes a human 8F4 polypeptide or a fragment thereof, wherein said 8F4 polypeptide:

- Sub D3
- a) is an inducible T cell costimulatory molecule;
 - b) occurs on two-signal-activated human T lymphocytes;
 - c) exhibits a molecular weight of about 55 to 60 kilodaltons as determined by non-reducing sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE); and
 - d) is a dimer of two peptide chains exhibiting molecular weights of about 27 kilodaltons and 29 kilodaltons, as measured by reducing SDS-PAGE.

B2
cont

79. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that recognizes the human 8F4 polypeptide of about 55 kilodaltons to 60 kilodaltons, as determined by non-reducing SDS-PAGE.

80. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that recognizes the peptide chain of about 27 kilodaltons, as determined by reducing SDS-PAGE.

81. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that recognizes the peptide chain of about 29 kilodaltons, as determined by reducing SDS-PAGE.

82. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that recognizes a human 8F4 polypeptide present on activated human CD4⁺ T lymphocytes and activated human CD8⁺ T lymphocytes.

Sub
D4

83. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that inhibits the biological activity of the human 8F4 polypeptide.

84. (New) The hybridoma of Claim 78, wherein said hybridoma produces a monoclonal antibody that activates the biological activity of the human 8F4 polypeptide.

85. (New) A pharmaceutical composition comprising a monoclonal antibody that recognizes a human 8F4 polypeptide or a fragment thereof, wherein said 8F4 polypeptide:

- Sub
D5
- a) is an inducible T cell costimulatory molecule;
 - b) occurs on two-signal-activated human T lymphocytes;
 - c) exhibits a molecular weight of about 55 to 60 kilodaltons as determined by non-reducing sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE); and
 - d) is a dimer of two peptide chains exhibiting molecular weights of about 27 kilodaltons and 29 kilodaltons, as measured by reducing SDS-PAGE.